

PEDESTAL SYSTEM AND METHOD OF CONTROLLING
ROTATIONAL AND BEARING STIFFNESS

ABSTRACT OF THE DISCLOSURE

A pedestal system comprises a base having a lower cylinder and an upper cylinder rotatably supported with respect to the lower vertical cylinder. A lower motor is coupled between the lower and upper cylinders to selectively cause rotational motion between the cylinders. Also provided is a top-most horizontal cylinder with a rotating shaft. The shaft has a bearing coupling the top-most horizontal shaft with respect to the upper vertical cylinder. Finally, an upper motor is provided. The upper motor is coupled between the top-most horizontal shaft and upper cylinder to selectively cause a rotational motion between the top-most horizontal shaft and the upper vertical cylinders.